Rec'd PCT/PTO 07 MAR 2005 10/526761

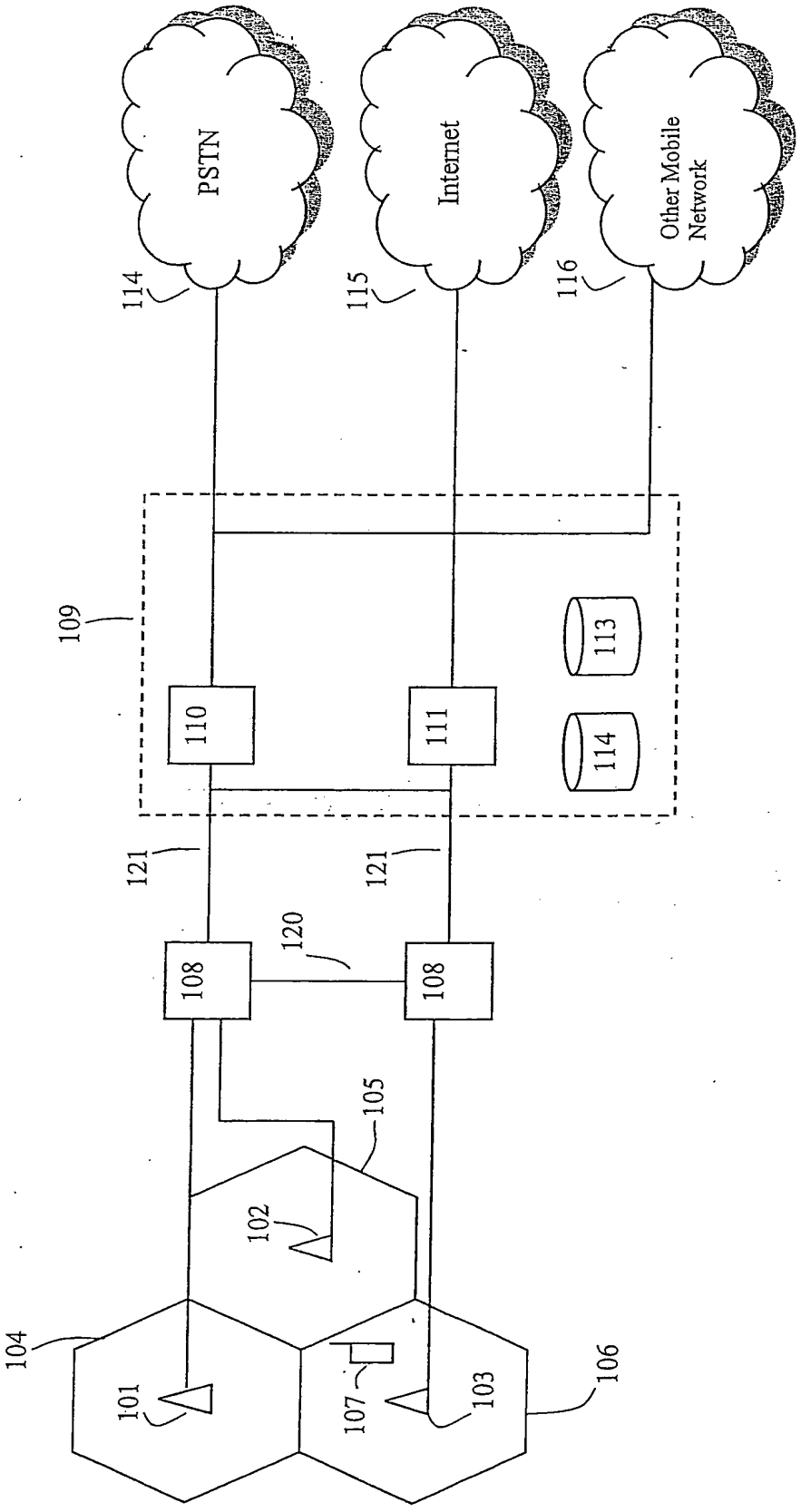


Figure 1

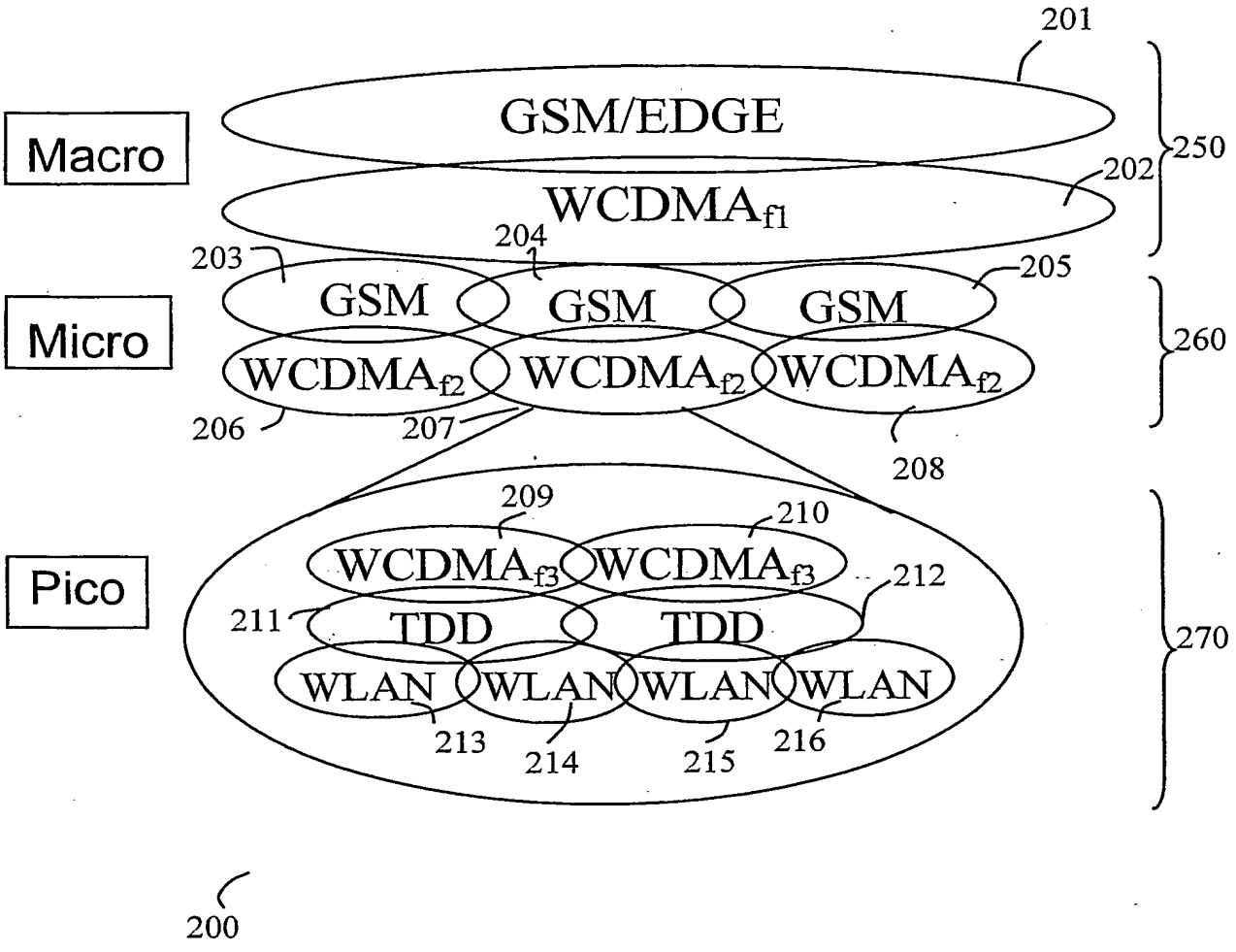

201
Macro
GSM/EDGE
250
202
WCDMA$_{f1}$
204
203
205
Micro
GSM
GSM
GSM
260
WCDMA$_{f2}$
WCDMA$_{f2}$
WCDMA$_{f2}$
206
207
208
209
210
Pico
WCDMA$_{f3}$
WCDMA$_{f3}$
212
211
TDD
TDD
270
WLAN
WLAN
WLAN
WLAN
213
214
215
216
200

Figure 2

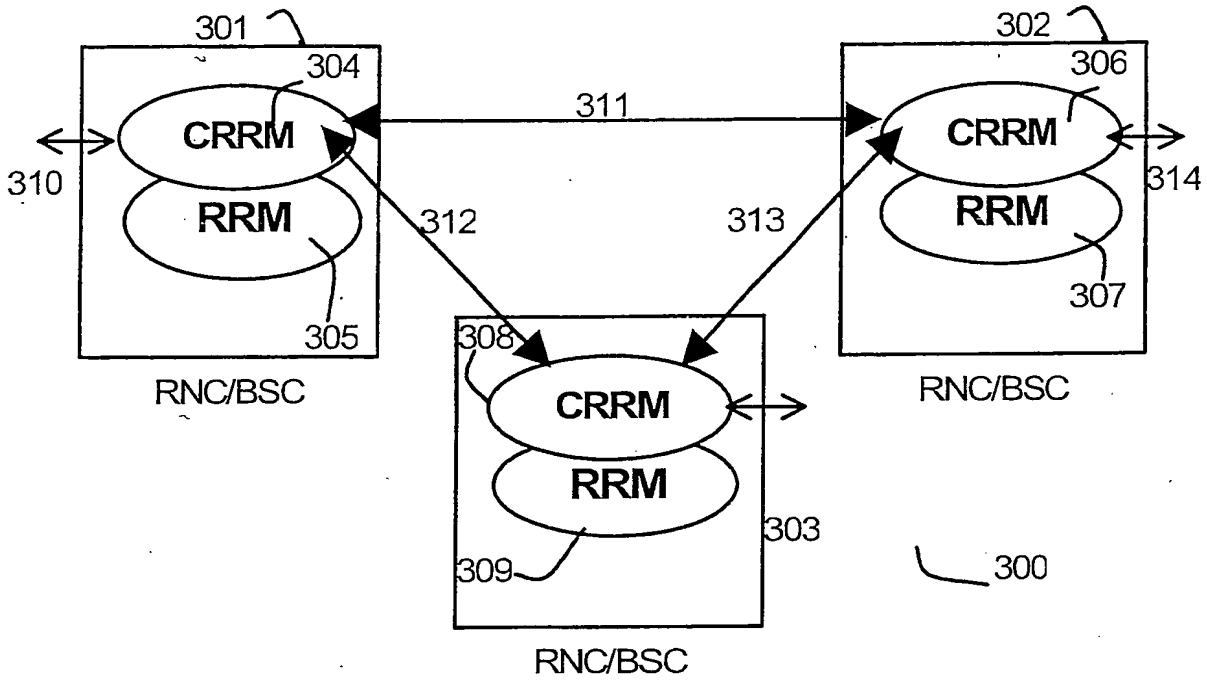

301
304
CRRM
RRM
305
RNC/BSC
310
311
312
313
302
306
CRRM
RRM
307
314
RNC/BSC
308
CRRM
RRM
303
309
RNC/BSC
300

Figure 3

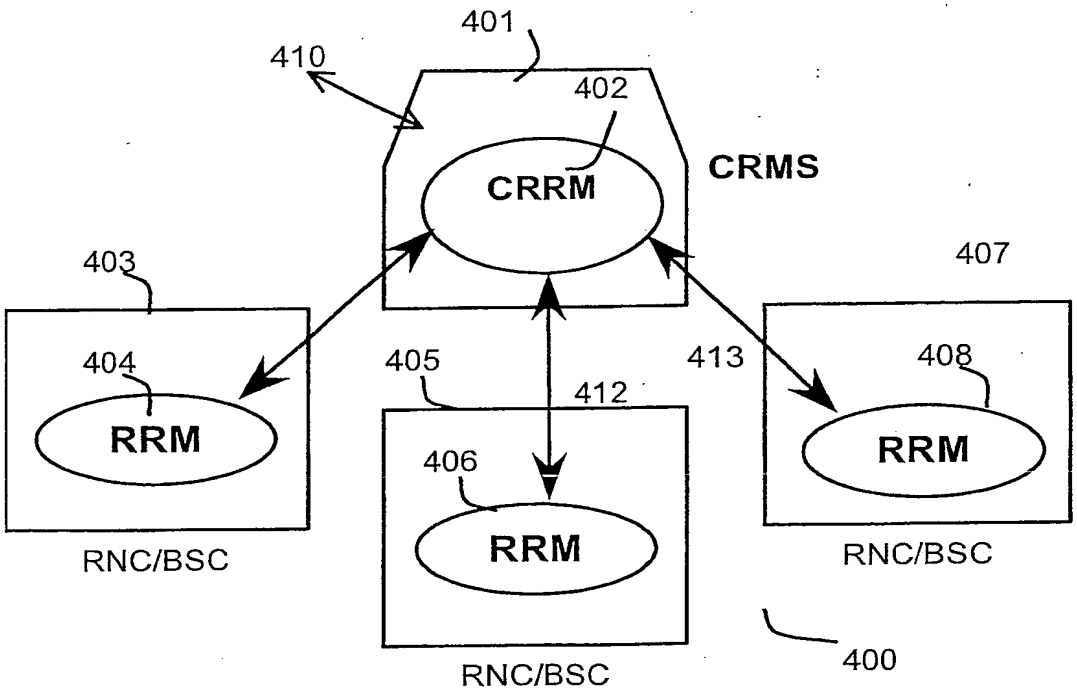
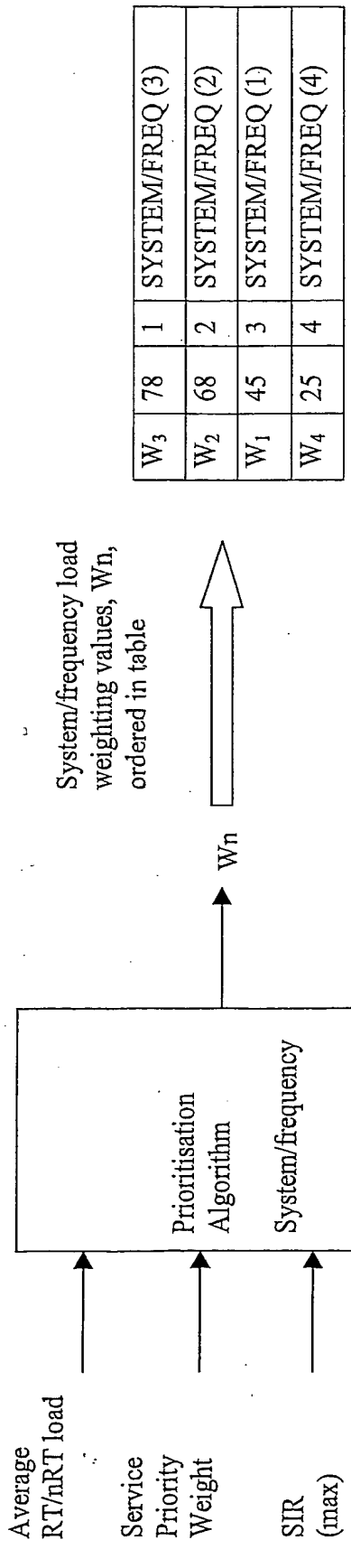

401
410
402
CRRM
CRMS
403
407
404
405
413
408
412
RRM
406
RRM
RRM
RNC/BSC
RNC/BSC
RNC/BSC
400

Figure 4

SERVICE / SYSTEM/FREQ	CONVERSATIONAL				STREAMING		INTER-ACTIVE	BACK-GROUND
	CS SPEECH	PS SPEECH	CS SPEECH	PS SPEECH	CS DATA	PS DATA		
SYSTEM/FREQ (1) GSM/EDGE	3	3	3	3	3	3	4	3
SYSTEM/FREQ (2) WCDMA, f1 MACRO	1	2	2	2	1	2	3	2
SYSTEM/FREQ (3) WDCMA, f2 MACRO	2	1	1	1	2	1	2	1
SYSTEM/FREQ (4) WCDMA, f3 MICRO	4	4	4	4	4	4	1	1
OTHER	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .

Figure 5



W_3	78	1	SYSTEM/FREQ (3)
W_2	68	2	SYSTEM/FREQ (2)
W_1	45	3	SYSTEM/FREQ (1)
W_4	25	4	SYSTEM/FREQ (4)

Figure 6

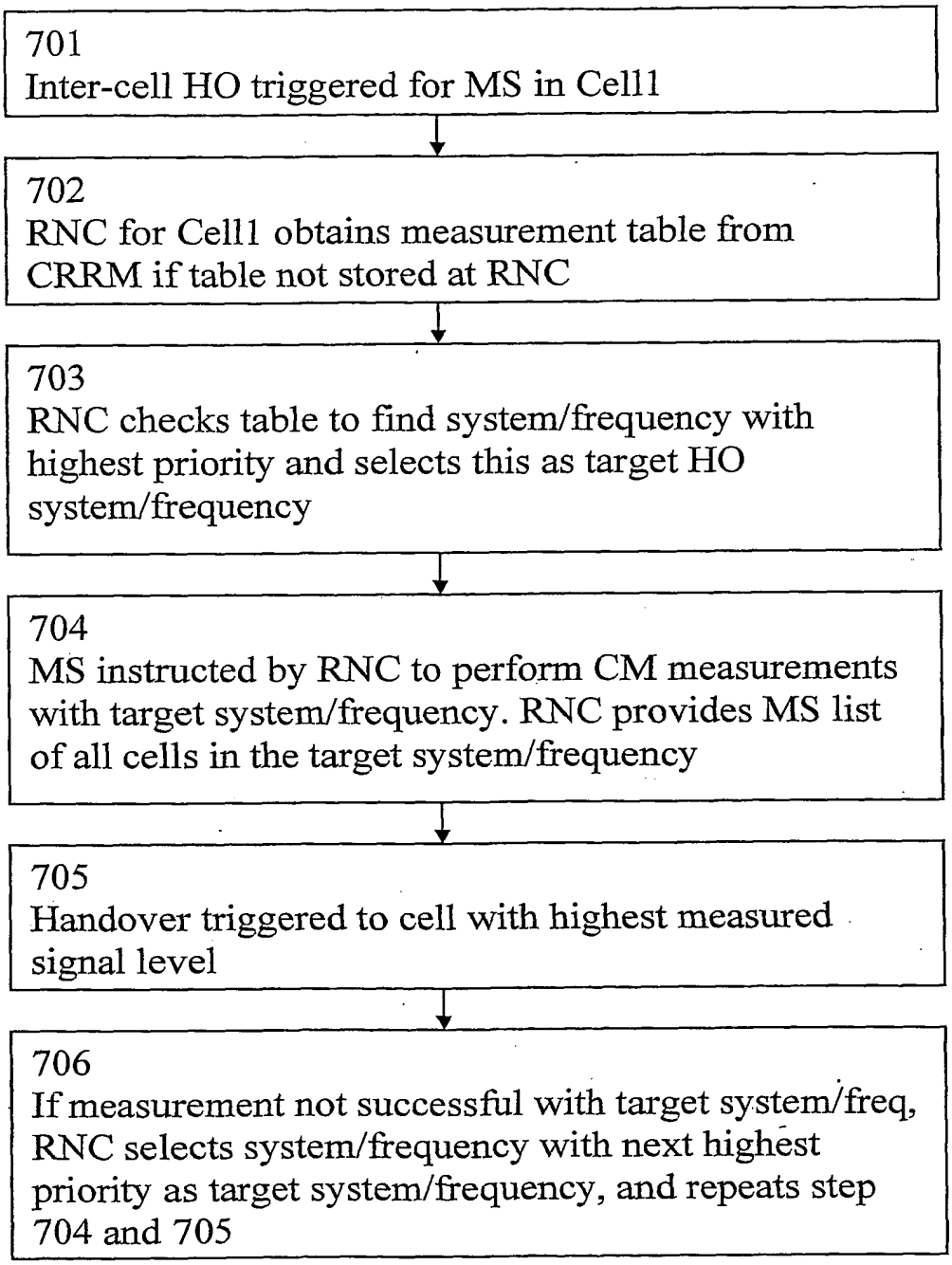

701
Inter-cell HO triggered for MS in Cell1
702
RNC for Cell1 obtains measurement table from CRRM if table not stored at RNC
703
RNC checks table to find system/frequency with highest priority and selects this as target HO system/frequency
704
MS instructed by RNC to perform CM measurements with target system/frequency. RNC provides MS list of all cells in the target system/frequency
705
Handover triggered to cell with highest measured signal level
706
If measurement not successful with target system/freq, RNC selects system/frequency with next highest priority as target system/frequency, and repeats step 704 and 705

Figure 7

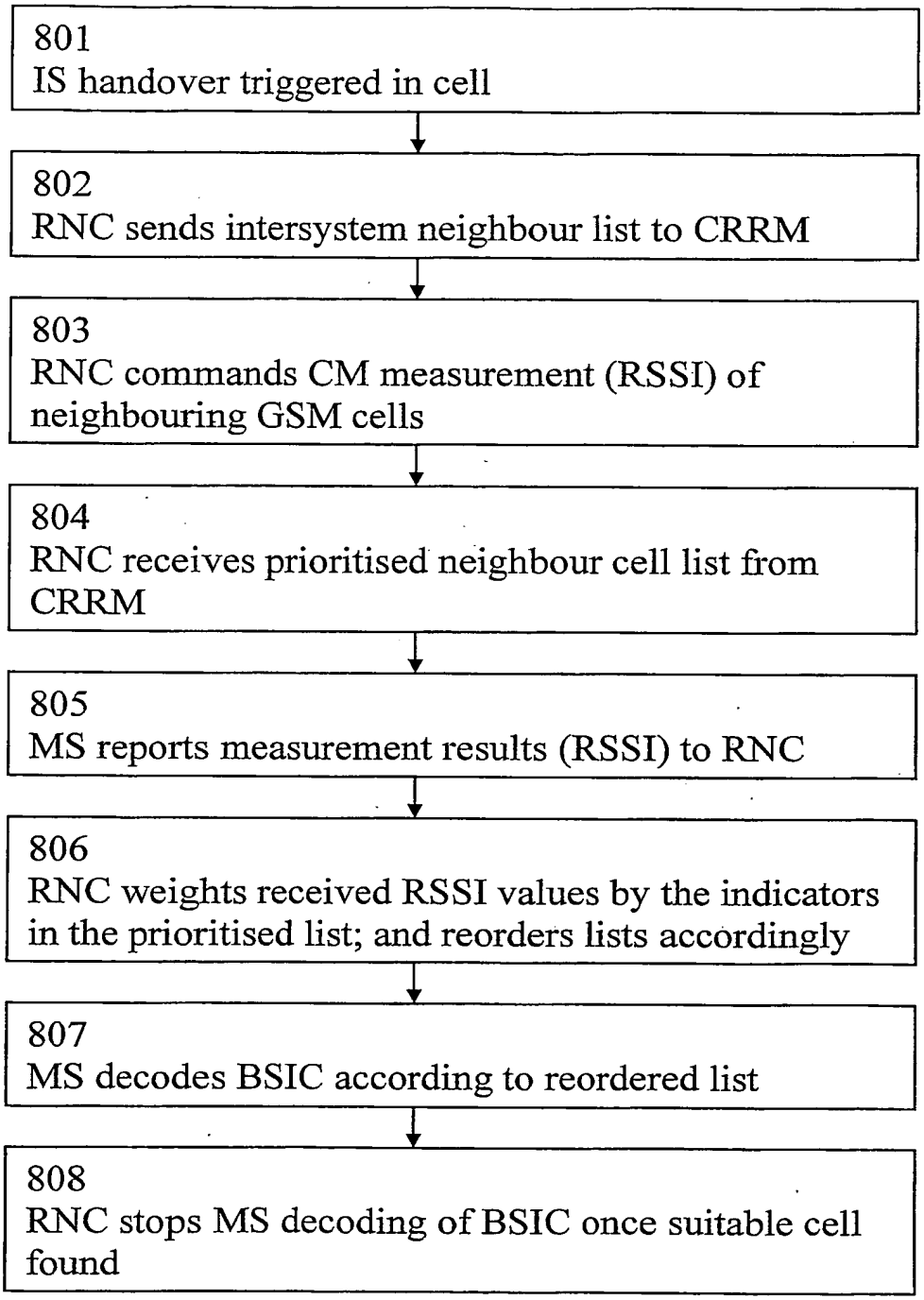

801
IS handover triggered in cell
802
RNC sends intersystem neighbour list to CRRM
803
RNC commands CM measurement (RSSI) of neighbouring GSM cells
804
RNC receives prioritised neighbour cell list from CRRM
805
MS reports measurement results (RSSI) to RNC
806
RNC weights received RSSI values by the indicators in the prioritised list; and reorders lists accordingly
807
MS decodes BSIC according to reordered list
808
RNC stops MS decoding of BSIC once suitable cell found

Figure 8

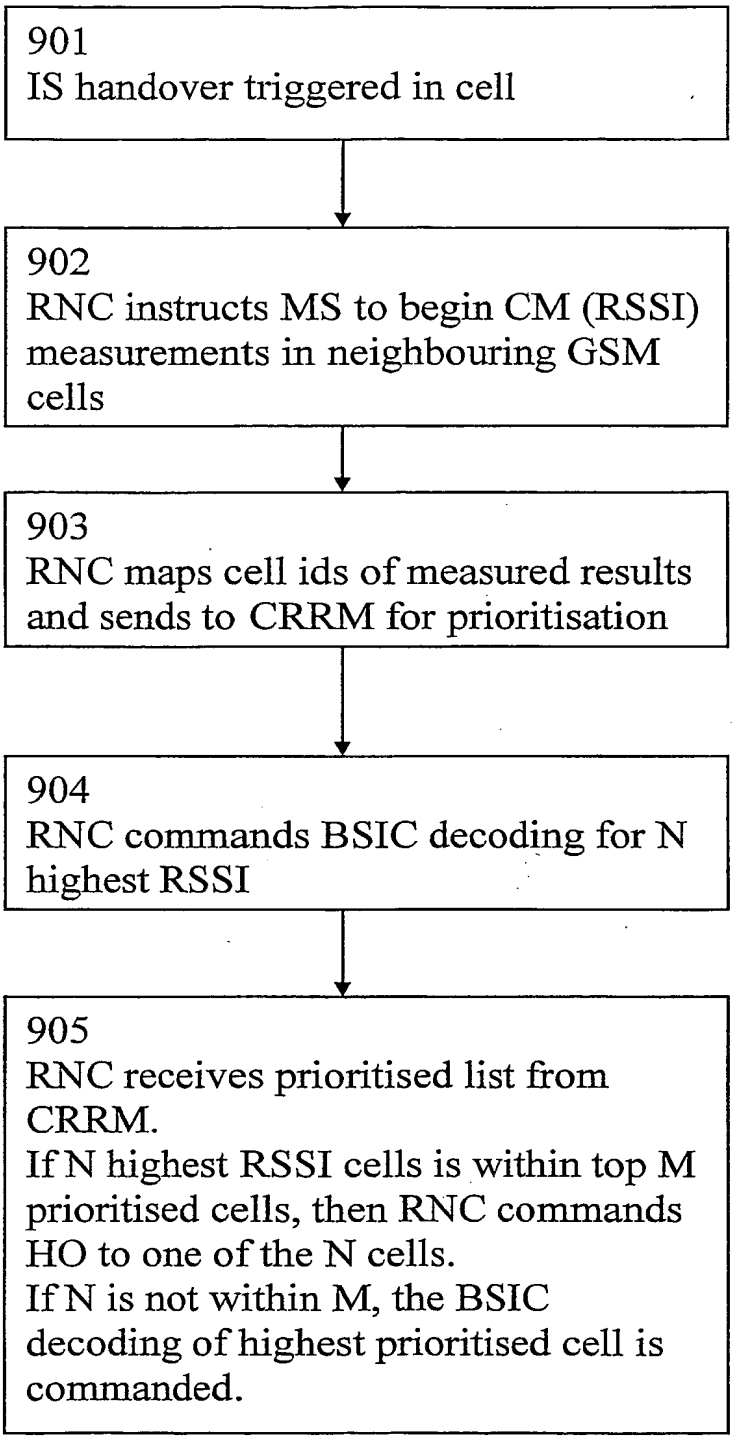

901
IS handover triggered in cell
902
RNC instructs MS to begin CM (RSSI) measurements in neighbouring GSM cells
903
RNC maps cell ids of measured results and sends to CRRM for prioritisation
904
RNC commands BSIC decoding for N highest RSSI
905
RNC receives prioritised list from CRRM.
If N highest RSSI cells is within top M prioritised cells, then RNC commands HO to one of the N cells.
If N is not within M, the BSIC decoding of highest prioritised cell is commanded.

Figure 9

Cell ID	Percentage of inter-system HO to the target cell	Load of the target cell
Cell34	76%	84%
Cell45	15%	80%
Cell23	4%	75%
Cell56	3%	76%
...	...	...

Figure 10

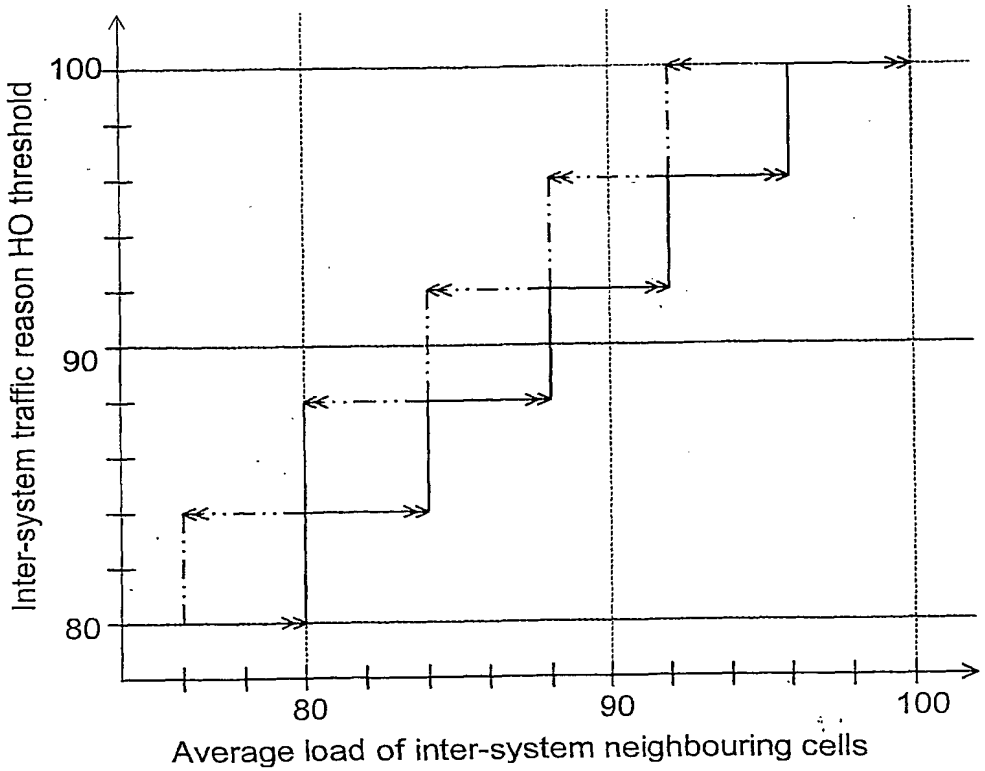


Figure 11